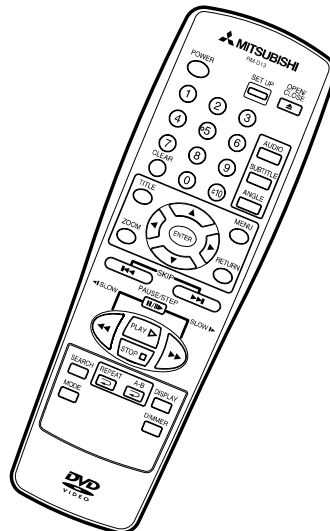
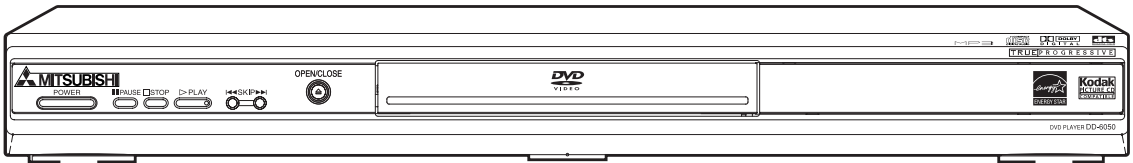
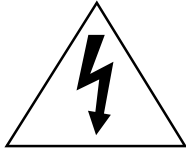

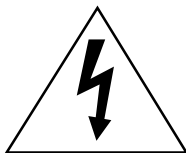

DVD Player

Owner's Guide



| | | |
|---|---|--|
|  | CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN |  |
| <p>WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> | | |



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- For models having a power cord with a polarized plug.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH THE WIDE BLADE OF THE PLUG TO THE WIDE SLOT, FULLY INSERT.

ATTENTION:

POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU’AU FOND.

ANGER:

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED
DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

IMPORTANT SAFEGUARDS

PLEASE READ ALL THESE INSTRUCTIONS AND RETAIN FOR FUTURE REFERENCE. FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE DVD PLAYER.

1. Importance of Instructions

All the safety and operating instructions should be read before the appliance is operated. The safety and operating instructions should be retained for future reference.

All warnings on the appliance and in the operating instructions should be adhered to. All instructions should be followed.

2. Cleaning

Unplug this DVD Player from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

3. Attachment and Equipment

Never add any attachments and/or equipment without approval of the manufacturer, as such additions may result in the risk of fire, electric shock, or other personal injury.

4. Water and Moisture

Do not use this DVD Player where contact with or immersion in water is a possibility. Do not use near bath tubs, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc.

5. Moisture Condensation

A drastic change in temperature, such as, moving your DVD player from a cold area to a warm area can cause moisture condensation on the optical pick-up lens. You must allow the player to evaporate any moisture before you play any discs. To do this, remove any discs that are in the player. Then turn the player on for two to three hours until it warms up. Using your DVD player before the moisture evaporates could seriously damage discs and internal parts.

6. Accessories

Do not place this DVD Player on an unstable cart, stand, tripod, bracket, or table. The DVD Player may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer or sold with the DVD Player. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.



S3125A

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the DVD Player and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the DVD Player on a bed, sofa, rug, or other similar surface, nor should it be placed over a radiator or heat register. If the DVD Player is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that you adhere to the manufacturer's instructions.

8. Stacking

Do not place any heavy object(s) on top of your DVD player. The object(s) may fall, causing serious injury and/or damage to the product.

9. Power Sources

This DVD Player should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. Overloading wall outlets and extension cords, can result in a risk of fire or electric shock.

10. Grounding or Polarization

For your safety, this DVD Player is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

11. Power-Cord Protection

Place the power-supply cord out of the way, where it will not be walked on, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

12. Lightning

Unplug your DVD Player from the wall outlet if it will not be used for a long time or if there is a lightning storm. This will prevent damage to the product due to lightning and power-line surges.

IMPORTANT SAFEGUARDS (continued)

13. Object and Liquid Entry

Never push objects of any kind into this DVD Player through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the DVD Player.

14. Servicing

Do not attempt to service this DVD Player yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

15. Damage Requiring Service

Unplug this DVD Player from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- (a) When the power-supply cord or plug is damaged.
- (b) If liquid has been spilled, or objects have fallen into the DVD Player.
- (c) If the DVD Player has been exposed to rain or water.
- (d) If the DVD Player does not operate normally when you follow the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the DVD Player to its normal operation.
- (e) If the DVD Player has been dropped or the cabinet has been damaged.
- (f) When the DVD Player exhibits a distinct change in performance.

16. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer, or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

17. Safety Check

Upon completion of any service or repairs to this DVD Player, ask the service technician to perform safety checks to determine that the DVD Player is in a safe operating condition.

18. Heat

The DVD Player should be situated away from heat sources, such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

19. Radiation Safety

The laser is covered by a housing which prevents exposure during operation or maintenance. This product is classified as a Laser Product by CDRH (Center for Devices and Radiological Health), a department of the Food and Drug Administration. According to their regulations, 21 CFR section 1002.30, all manufacturers who sell Laser Products must maintain records of written communications among the manufacturer, dealers, and customers concerning radiation safety. If you have any complaints about instructions or explanations affecting the use of this product, please write to us at the address on the back page of this manual. When writing, include the model number and serial number of your DVD Player.

20. In compliance with Federal Regulations, the certification, identification, and period of manufacture are indicated on the rear panel.

21. FCC INFORMATION FOR USER

CAUTION:

Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

IMPORTANT:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user can try to correct the interference by one of the following measures:

- (a) Reorient or relocate the receiving antenna.
- (b) Increase the separation between the equipment and the receiver.
- (c) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (d) Consult the dealer or an experienced radio/TV technician for help.

NOTES

A Note About Recycling

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

The serial number of this product may be found on the back of the DVD player. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

About Copyright

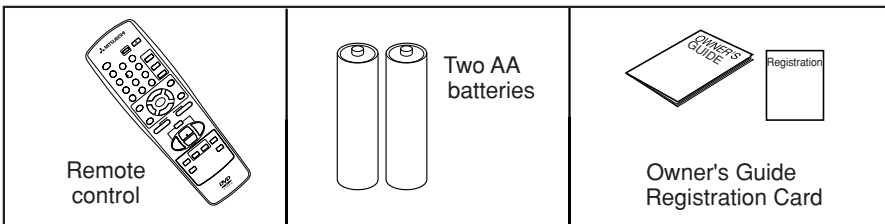
Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Notice for progressive scan outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the "standard definition" output. If there are questions regarding our TV set compatibility with this model 525p DVD player, please contact our customer service center.

Supplied Accessories



Symbols Used in This Manual

The following symbols appear below some headings and in some notes in this manual.

DVD-V :

Refers to playback of DVD Video discs.

CD :

Refers to playback of audio CDs.

MP3 :

Refers to playback of MP3 discs.

JPEG :

JPEG video data recorded onto CD (CD-R and CD-RW) can be displayed.

Picture CD :

Kodak Picture CD standard can be played back.

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FEATURES

- **Progressive Scan system**

Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional television signals.

- **Dolby Digital sound**

This player can handle Dolby Digital surround sound with 5.1 channels when connected to a Dolby Digital decoder.

- **DTS (Digital Theater System)**

You can enjoy 5.1 channel surround system developed by Digital Theater System which reproduces the original sound as truthfully as possible.

- **Still/fast/slow/step playback**

Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.

- **Random playback for audio CD and MP3 / JPEG / Picture CD**

This player can shuffle the order of tracks to play them in random order.

- **Program playback for audio CD and MP3 / JPEG / Picture CD**

You can program the order of tracks to play them in any desired order.

- **DVD menus in a desired language**

You can display DVD menus in a desired language, if available on a DVD.

- **Screen saver/Auto power-off functions**

The screen saver program starts when there is no input from the player for five minutes in the stop mode. When the screen saver program is activated for 30 minutes, the power is automatically turned off.

- **Subtitles in a desired language**

You can select a desired language for the display subtitles, if that language is available on a disc.

- **Selecting a camera angle**

You can select the desired camera angle, if a disc contains sequences recorded from different angles.

- **Choices for audio language and sound mode**

You can select the desired audio language and sound mode, if different languages and modes are available on a disc.

- **Parental lock**

You can set the control level to limit playback of discs which may not be suitable for children.

- **Automatic detection of discs**

This player automatically detects if a loaded disc is DVD, audio CD, MP3, JPEG, Picture CD on disc.

- **Playing an MP3 disc**

You can enjoy MP3 files which are recorded on CD-R/RW.

- **Direct Search**

You can search the desired title, chapter, and track with numeric button during playback or in stop mode.

- **Marker**

You can memorize your favorite places on a disc.

- **On-screen display**

Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as program playback), on the TV screen using the remote control.

- **Search**

Chapter search: Search for the chapter designated by user is possible.

Title search: Search for the title designated by user is possible.

Track search: Search for the track designated by user is possible.

Time search: Search for the time designated by user is possible.

- **Repeat**

Chapter: Repeated playback of the chapter of the disc being played is possible.

Title: Repeated playback of the title of the disc being played is possible.

Track: Repeated playback of the track of the disc being played is possible.

All (audio CD, MP3/JPEG): Repeated playback of the entire disc being played is possible.

A-B: The part between A and B designated by user is possible.

Group: Repeated playback of the folder of the MP3/JPEG disc being played is possible.

- **Zoom**

1.3, 2-time and 4-time magnified screen can be displayed.

- **Resume Play**

User can resume to playback from the part at which the play was stopped even if the power is turned off.

- **Component Video Out Jacks**

Jacks located on the back of the DVD Player which are used to send high-quality video to a TV via Component Video In Jacks.

- **Dimmer**

Brightness of the display can be adjusted.

- **Bit rate indication**

- **DRC (Dynamic Range Control)**

You can control the range of sound volume.

- **JPEG Photo Viewer**

- **Kodak Picture CD playback**

- **Adjusting image quality**

The user can adjust the degree of image quality mode, gamma correction, sharpness, color depth and hue.




- **Speech Control**

Playback in slightly faster / slower speed while keeping the sound quality as in the normal playback. Speech control is available only on discs recorded in the Dolby Digital format.

ABOUT THE DISCS

PLAYABLE DISCS

The following discs can be played back on this DVD player.

| Disc Type | Logo | Contents | Disc Size | Maximum Playback Time |
|------------|---|--------------------|--------------------------------|----------------------------|
| DVD Video |  | Sound and Pictures | 12 cm | Approx. 4 h (single-sided) |
| | | | | Approx. 8 h (double-sided) |
| | 8 cm | | Approx. 80 min (single-sided) | |
| | | | Approx. 160 min (double-sided) | |
| Audio CD |  | Sound | 12 cm | 74 min |
| | | | 8 cm (singles) | 20 min |
| Picture CD |  | Digital Photos | | |

The following discs are also available.

- CD-R/CD-RW discs of CD-DA format

Some of these discs may be incompatible because of "scratch and stain of disc", "Recording condition", and "Characteristic of Recorder".

This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

- Some discs include region codes as shown below.



- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD players with the same region code.

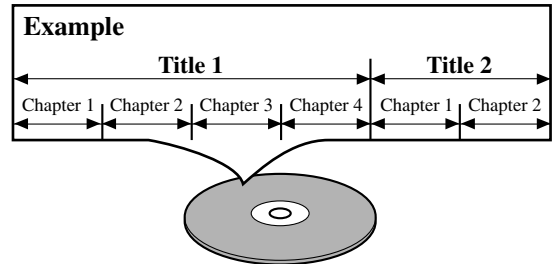
The following discs cannot be played back on this DVD player.

- DVD with region codes other than 1 or ALL.
- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.)
- CD-ROM
- VSD
- CDV (Only plays back the audio part.)
- CD-G (Only plays back the sound.)
- CD-R/CD-RW (Only plays back the discs which audio CD/MP3/JPEG is recorded.)
- CD-I (Never play back, otherwise malfunction may result.)
- SACD (Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.)
- Photo CD (Never play back, otherwise malfunction may result.)
- Any other discs without compatibility indications.

DISC TYPES

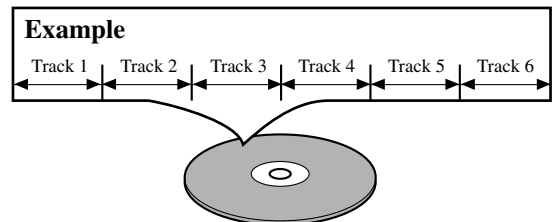
[DVD]

Data on a DVD is divided into sections called "titles," and then into subsections called "chapters," each of which is given a title or chapter number. Playback conditions are preset on some DVD Video discs, and these playback conditions take priority over user operations on this player. If a function you selected does not run as desired, refer to the manual accompanying the disc.



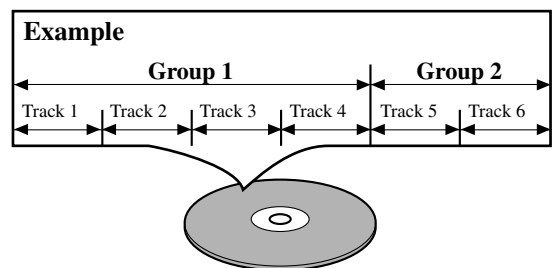
[AUDIO CD]

Data on an audio CD is divided into sections called "tracks," each of which is given a track number.



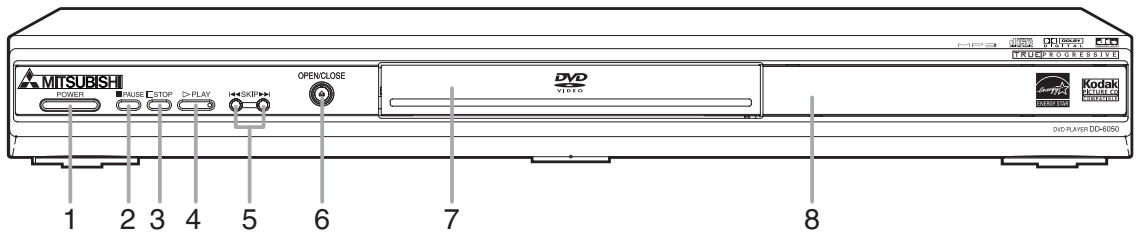
[MP3 or JPEG]

These files are divided into sections called "groups," and then into subsections called "tracks," each of which is given an album or track number.

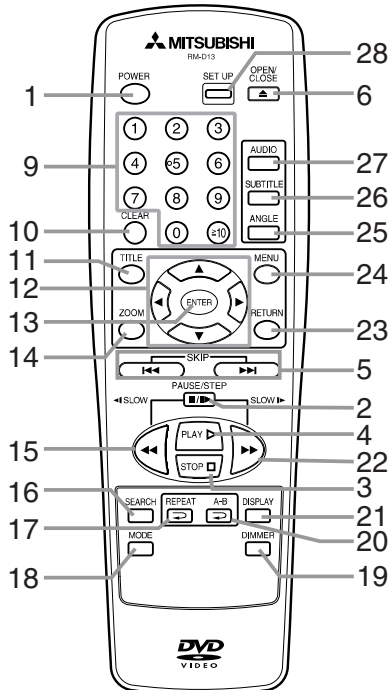


OPERATING CONTROLS AND FUNCTIONS

FRONT PANEL

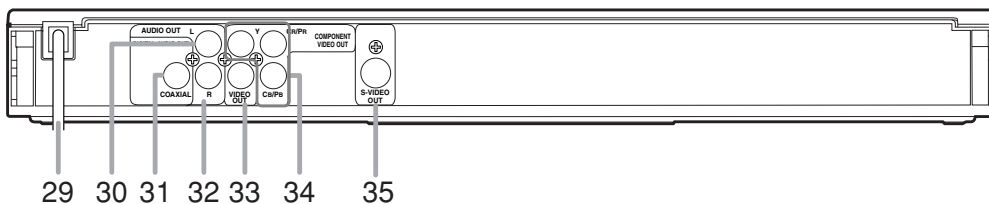


REMOTE CONTROL



1. **POWER Button [page 14]**
Press to turn the power on and off.
2. **PAUSE Button (main unit) [page 15]**
Pauses the current disc operation.
PAUSE/STEP Button (remote control) [page 15]
Pauses the current disc operation. View the still picture frame by frame.
3. **STOP Button [page 14]**
Stops operation of the disc.
4. **PLAY Button [page 14]**
Starts playback of the disc contents.
5. **SKIP Buttons [page 16]**
▶▶: Plays back from the beginning of the next chapter or track.
◀◀: Plays back from the beginning of the current chapter or track.
6. **OPEN/CLOSE Button [page 14]**
Press to insert or remove discs from the tray.
7. **Disc loading tray**
8. **Display, Remote Sensor Window**
9. **Numeric Buttons [page 16]**
10. **CLEAR Button [page 17]**
Resets a setting.
11. **TITLE Button [page 15]**
Displays the title menu.
12. **Arrow Buttons**
Use to scroll and cycle through disc and player menus and settings.
13. **ENTER Button**
Press to accept a setting.
14. **ZOOM Button [page 20]**
Enlarges part of a DVD-reproduced image.
15. **REV Button [page 16]**
Fast reverse playback to a desired point.
16. **SEARCH MODE Button [pages 16, 17]**
Press to locate a desired point.
17. **REPEAT Button [page 18]**
Repeats playback of the current disc, title, chapter or track.
18. **MODE Button [page 20]**
Activates program playback or random playback mode when playing CDs or MP3/JPEG/Picture CD. Also Sets Image Quality setting, Black Level, Virtual Surround and Speech Control.
19. **DIMMER Button [page 10]**
Select the display panel brightness.
20. **A-B REPEAT Button [page 19]**
Repeats playback of a selected section.
21. **DISPLAY Button [page 26]**
Displays timer and bit-rate information on the TV screen.
22. **FWD Button [page 16]**
Fast forwards playback to a desired point.
23. **RETURN Button**
Returns to the previous operation.
24. **MENU Button [page 14]**
Displays the disc menus.
25. **ANGLE Button [page 25]**
Press to change the camera angle to see the sequence being played back from a different angle.
26. **SUBTITLE Button [page 25]**
Press to select a desired subtitle language.
27. **AUDIO Button [page 24]**
Press to select a desired audio language or sound mode.
28. **SETUP Button [page 29]**
Press to enter the setup mode or to change setup items.

REAR VIEW



- 29. Power Cord
- 30. Left AUDIO OUT Jack
- 31. COAXIAL DIGITAL AUDIO OUT Jack
- 32. Right AUDIO OUT Jack

- 33. VIDEO OUT Jack
- 34. COMPONENT VIDEO OUT Jacks
- 35. S-VIDEO OUT Jack

DISPLAY

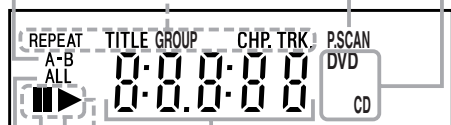
Lights up when the A-B repeat function is on.

Displays a type of the disc which is inserted on the tray.

- DVD : DVD disc
- CD : Audio CD, MP3, JPEG, Picture CD

Lights up when Progressive Scan is on.

Lights up when the repeat function is on.



Displays how long the current title or track has been played back. When a chapter or track is switched, the number of a new title, chapter or track is displayed.

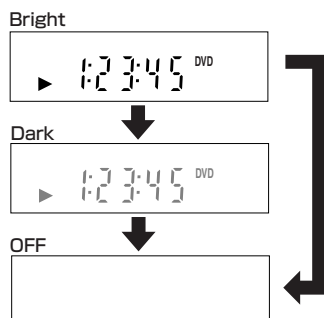
Lights up when the playback is slow mode.

Lights up when the inserted disc is being played back.

Lights up when the inserted disc comes to a pause.

Lights up when the ALL repeat function is on.

It is possible to change the brightness of display unit by pressing the DIMMER button of remote control.



- When the power supply is turned off, the display is returned to the setup status.

DISPLAYS DURING OPERATION

| | |
|---------|--------------------------------------|
| 00 | Power on |
| - - - - | No disc inserted or playing DVD menu |
| OPEN | Opening the Tray |
| CLOSE | Closing the Tray |
| Load | Loading the disc |
| OFF | Power off |

LOADING THE BATTERIES

1. Open the battery compartment cover.
2. Insert two AA batteries, with each one oriented correctly.
3. Close the cover.

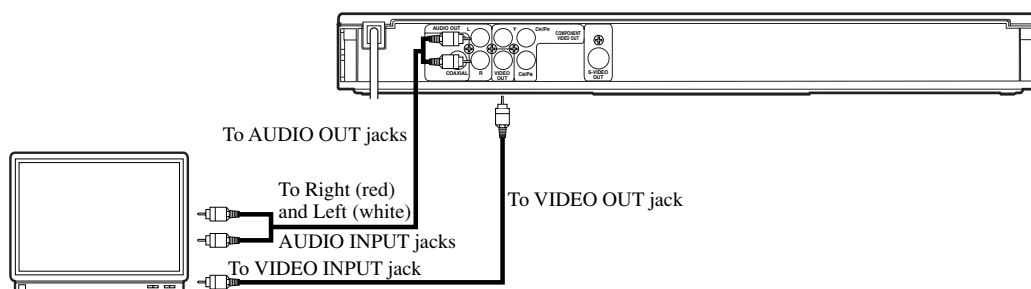


Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

HOOKUPS

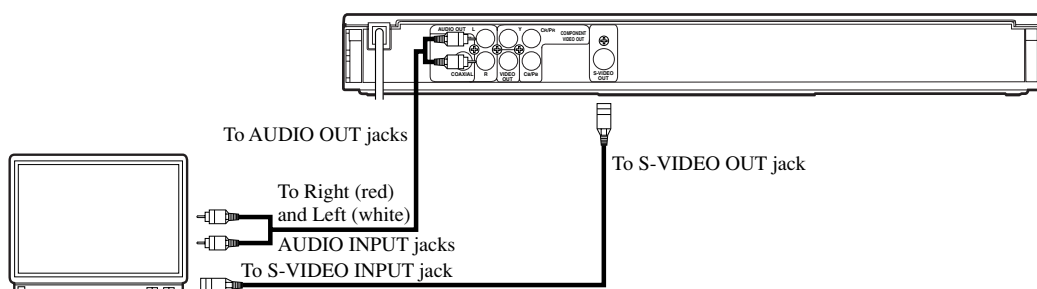
CONNECTING TO A TV



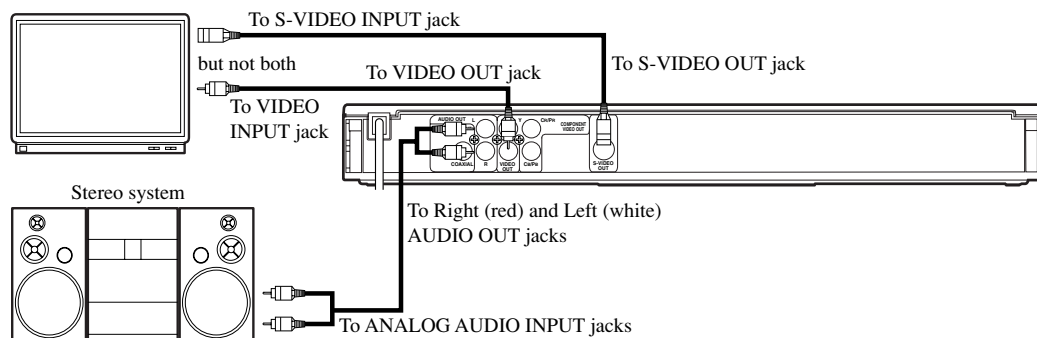
[Fig. 1]

FOR TVs WITH S-VIDEO INPUT JACK

Use an S-Video cable (commercially available) in place of the yellow video cable to enjoy pictures at higher quality.



[Fig. 2]



[Fig. 3]

Notes

- Connect the DVD player directly to a TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Owner's Manuals for your TV, stereo system and any other components to be connected to the DVD player.
- The analog output terminal does not supply DTS sound.

Selecting 525p (480p) Progressive Scan or 525i (480i) Interlaced Playback

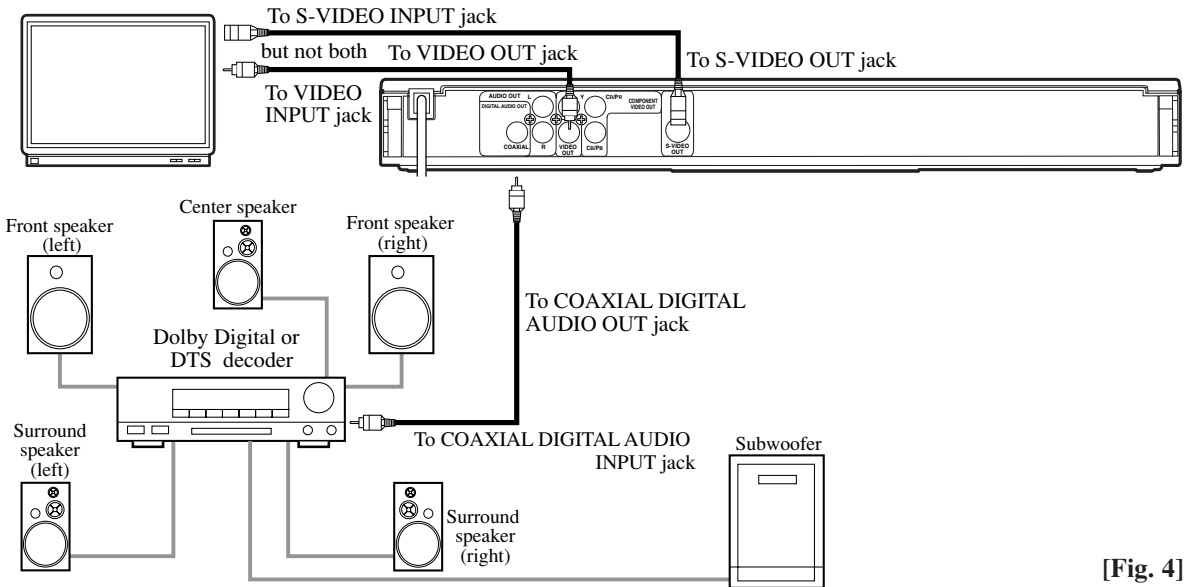
- If your TV is compatible with 525p (480p) progressive scanning, connect the TV to the Component Video Output jacks of the DVD player and set "PROGRESSIVE" to "PROGRESSIVE" in the display setting. Next, set your TV to the progressive scan mode. Refer to pages 31 and 32 for instructions on changing the display setting.
- If your TV is not compatible with progressive scan, set "PROGRESSIVE" to "INTERLACE".
- Use a commercially available adaptor if the video input jacks of your TVs or monitors are the BNC type.

What is Progressive Scanning?

- Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional 525i (480i) television signals.

CONNECTING TO A DOLBY DIGITAL DECODER OR DTS DECODER

If using this DVD player to playback a DVD in a 5.1 channel Dolby Digital surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its OPTICAL or COAXIAL DIGITAL AUDIO OUT jacks. By hooking the player up to a Dolby Digital or DTS decoder, you can enjoy a more convincing, realistic ambience with powerful and high-quality surround sound of a professional standard, which can be heard in movie theaters. Use an audio coaxial or optical digital cable (not included) for the audio connections.



[Fig. 4]

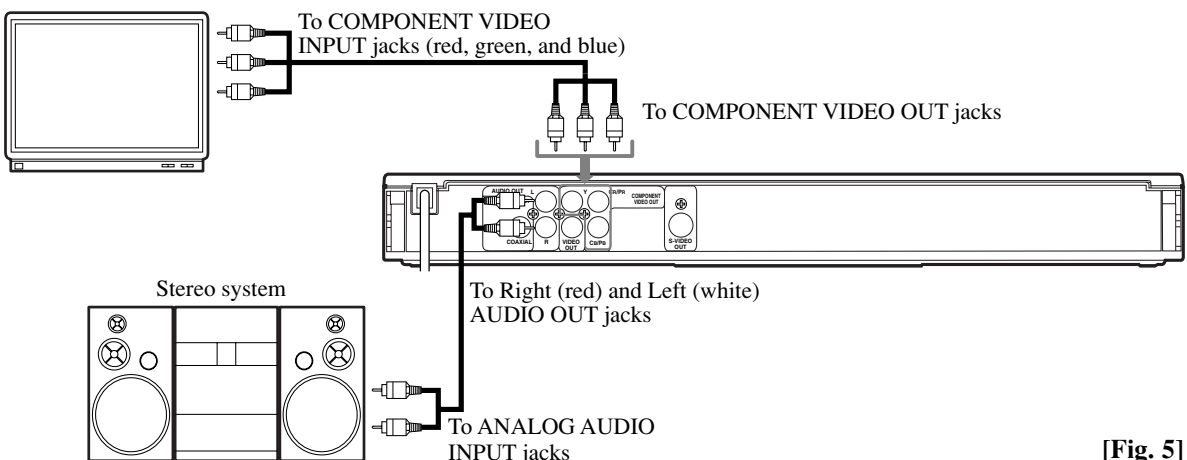
Notes

- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Owner's Manuals for the components to be connected to the DVD player.
- If output is Dolby Digital audio, connect to a Dolby Digital decoder and set "DOLBY DIGITAL" to "ON" for audio output in the setup mode.
- If output is DTS audio, connect to a DTS decoder and set "DTS" to "ON" for audio output in the setup mode.
- Unless connected to a Dolby Digital decoder or a DTS decoder, set "DOLBY DIGITAL" or "DTS" to "OFF" for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion and may also damage the speakers.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

CONNECTING TO A TV OR A STEREO TV THAT HAS COMPONENT VIDEO IN JACKS

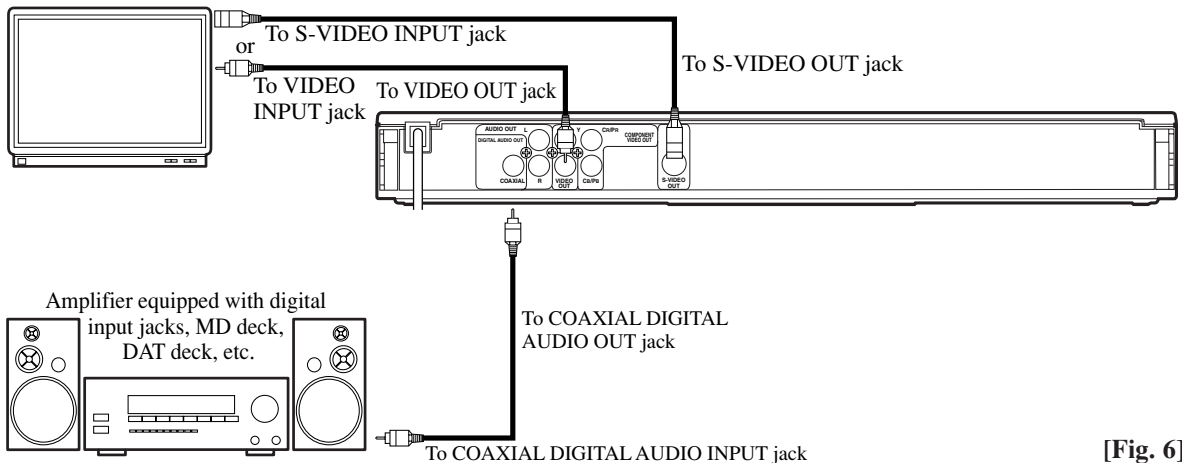


[Fig. 5]

CONNECTING TO AN AMPLIFIER EQUIPPED WITH DIGITAL INPUT JACKS SUCH AS MD DECK OR DAT DECK

Use an audio coaxial or optical digital cable (not included) for the audio connections.

Connecting to an amplifier equipped with digital input jacks such as MD Deck or DAT Deck:



[Fig. 6]

Notes

- The audio source on a disc in a 5.1 channel Dolby Digital surround format cannot be recorded as digital sound by an MD or DAT deck.
- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Owner's Manuals for the components to be connected to the DVD player.
- Set "DOLBY DIGITAL" and "DTS" to "OFF" for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers (See page 32 to set "ON" for "DOLBY DIGITAL" and "DTS").

HOW TO CONNECT TO A TV WITHOUT AUDIO/VIDEO INPUT JACKS

If your TV does not have RCA type audio and video input jacks, it is still possible to connect this DVD player to your TV's 75-ohm coaxial antenna terminal using a commercially available Stereo Audio/Video RF Modulator that is not included. Connect the audio and video outputs of the DVD player to the audio and video inputs on the RF Modulator, and then connect the coaxial output of the RF Modulator (usually marked "TO TV") to the 75-ohm coaxial antenna terminal on your TV. Follow the instruction supplied with the RF Modulator for more details.

If your TV's 75-ohm coaxial antenna terminal is already occupied by an antenna or cable box connection, remove that cable from your TV's antenna terminal and reconnect it to the coaxial antenna input terminal of the RF Modulator (usually marked "ANT IN"), then connect the RF modulator to your TV's antenna terminal as described above.

Note

- The picture quality from DVD discs will not be as good if the DVD player is connected to the TV's antenna terminal through an RF Modulator.

PLAYING A DISC

PLAYING A DVD VIDEO OR AN AUDIO CD

DVD-V CD

Getting started

Turn on the power of the TV, amplifier and any other components which are connected to the DVD player. (Change the input system to suit the DVD player, and check that the sound volume is correct.)

1 Press the POWER button.

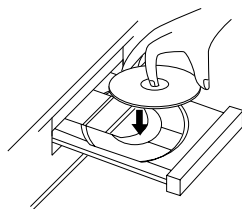
- The power will turn on.

2 Press the OPEN/CLOSE button.

- The disc loading tray will open.

3 Place a disc into the tray.

- Make sure the disc is sitting properly in the correct recess, with the label side up. Discs that are irregularly shaped, contain a scratch protection film, or have any type of sticker or adhesive label should not be inserted.




4 Press the PLAY button.

- The tray will close automatically, and playback will then start from the first chapter or track of the disc. You need to press the PLAY button only when the tray has been closed by pressing the OPEN/CLOSE button.
- When you playback a DVD which a title menu is recorded, it may appear on the screen. In this case, refer to "USING THE TITLE MENU."

5 Press the STOP button to stop play.

Notes

- A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc. 
- If a disc is dirty or has scratches, the pictures may appear distorted and the playback operation may stop. In such cases, clean the disc and unplug the power cord and then plug it again before resuming playback. Never attempt to play a cracked or broken disc !

- With DVDs that use some titles for playback program signals, playback may start from the second title, or it may skip these titles.
- During the playback of a common two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction, and is commonly found on pre-recorded discs.
- Operation may vary when you playback DVDs with a disc menu. Refer to the manual accompanying the disc for details.

USING THE DVD MENU

DVD-V

Some DVDs contain their own menus, such as a guidance menu which describes the contents of the disc or a selection menu for sound, language and other customized settings.

1 Press the MENU button.

- The DVD menu will appear.

2 Select the desired title.

- Press the Arrow buttons (▲/▼/◀/▶) to change the setting, and then press the ENTER button.

3 Playback will start from the selected title.

USING THE TITLE MENU

DVD-V

With a DVD containing a title menu, you can select desired titles from the menu.

1 Press the TITLE button.

- The title menu will appear.

2 Select the desired title.

- Press the Arrow buttons (▲/▼/◀/▶) to change the setting, and then press the ENTER button.

CALLING UP A MENU SCREEN DURING PLAYBACK

For DVDs

- Press the MENU button to call up the DVD menu.
- Press the TITLE button to call up the title menu.

Note

- Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

PAUSING PLAYBACK OR DISPLAYING A STILL PICTURE

DVD-V

CD

MP3

1 Press the PAUSE/STEP button during playback.

- Playback will pause, with sound muted.



2 Press the PLAY button to resume playback.



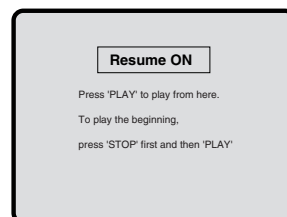
RESUMING PLAYBACK FROM THE POINT WHERE PLAYBACK STOPPED

DVD-V

CD

1 Press the STOP button during playback.

- Playback will stop, and then the resume message will appear at the center.



2 Press the PLAY button. Playback will start from the point where the previous playback session was stopped.



Notes

- The resume function can be reset by pressing the STOP button twice or by opening the disc loading tray.
- The "Resume" information stays in the memory even when the power is turned off.
- For MP3, JPEG and Picture CD, playback will resume from the beginning of the track at which playback was stopped.

STEPPING THROUGH FRAMES

DVD-V

1 Press the PAUSE/STEP button while playback is paused.

- The next picture frame is displayed with sound muted each time the button is pressed.



2 Press the PLAY button to resume playback.



Notes

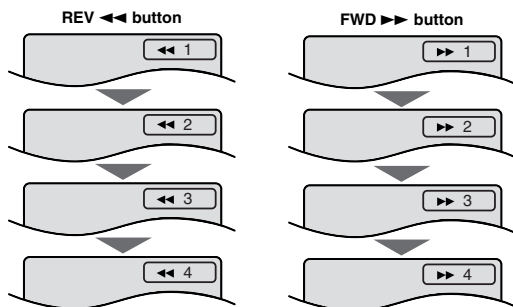
- This machine is not available with a step-back function.
- Set "STILL MODE" to "FIELD" in the "Display" menu if pictures in the pause mode are blurred.(for DVD play only)(Refer to page 31 and 32)

FAST FORWARD/REVERSE

DVD-V CD MP3

1 Press the FWD ►► or REV ◀◀ button during playback.

- For DVD's, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1(x2), 2(x8), 3(x50), and 4(x100). In case of DVD's, the sound will mute.
- For audio CD's, the approximate speed is x16.
- For MP3, the approximate speed is x8.



2 Press the PLAY button to return to normal playback speed.

Note

- Set "STILL MODE" to "FIELD" in the "Display" menu if pictures in the pause mode are blurred. (for DVD play only)(Refer to page 31 and 32)

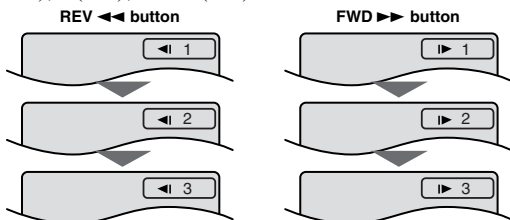
SLOW MOTION

DVD-V

1 Press the FWD ►► or REV ◀◀ button while playback is paused. (Sound remains muted.)

Press FWD ►► or REV ◀◀ repeatedly to select the required speed.

- Slow forward or reverse speed is different depending on the disc. Approximate speed is 1(1/16), 2(1/8), and 3(1/2).



2 Press the PLAY button to return to normal playback speed.

Notes

- Slow playback is not available with audio CDs, MP3.
- Set "STILL MODE" to "FIELD" in the "Display" menu if pictures in the pause mode are blurred. (for DVD play only)(Refer to page 31 and 32)

STARTING FROM A DESIRED TRACK

CD MP3 JPEG

1 Press the Numeric buttons to enter the desired track number.

- The selected track will be located, and playback will start.

You can also press the SEARCH MODE button, by using the Numeric buttons to enter the track number. When the track number is entered in the entry box, playback of the desired track will start automatically.



Notes

- During play, a desired track can be directly searched. To do so enter the TRACK number with the Numeric buttons.
- If the entered TRACK number is not available, the "disable" symbol appears and the direct search mode is cancelled.

TRICKS WITH THE SKIP BUTTONS (◀◀, ►►)

If the SKIP button ►► is pressed during playback or while playback is paused, the current track will be skipped and the next track will be played. When the SKIP button ◀◀ is pressed once, the top of the current track will be located for replaying. When the SKIP button ◀◀ is pressed again within 2-seconds after playback begins, the previous track will be located.

PLAYING FROM A DESIRED TITLE OR CHAPTER

DVD-V

1 Press the SEARCH MODE button and then press the Numeric buttons to select a title or a chapter.

- During playback, press the Numeric buttons to select a Chapter. The Chapter will be located and playback will start.
- When playback is stopped, press the Numeric buttons to select a Title. The Title will be located and playback will start.



Notes

- Playback from a desired title or chapter is not available with some DVDs.
- Some discs in which the chapter number isn't displayed, can not playback from a desired chapter.

TRICKS WITH THE SKIP BUTTONS (◀◀, ►►)

If the SKIP button ►► is pressed during playback or while playback is paused, the current chapter will be skipped and the next chapter will be played. When the SKIP button ◀◀ is pressed once, the top of the current chapter will be located for replaying. When the SKIP button ◀◀ is pressed again within 2-seconds after playback begins, the previous chapter will be located.

STARTING FROM A DESIRED TIME COUNT

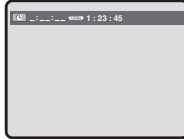
DVD-V CD

1 Press the **SEARCH MODE** button repeatedly during playback.

2 Press the Numeric buttons to set the desired time count.

- **Example:** 1 hour, 23 minutes and 30 seconds

1 **2** 3 0



Notes

- In the case of DVD, Time Search in Title is effective, but Time Search in Chapter is ineffective.
- In the case of CD, Time Search in Track is effective, but Time Search in the entire disc is ineffective.
- Playback from a desired time count is not available with some discs or if the unit is in stop mode.
- If wrong numbers are entered, press the **CLEAR** button and re-enter the correct numbers.
- When there is no need to enter a number, "0" appears automatically. For example, "0:0:_ _" appears in the Time Search display if the total time of the disc is less than 10 minutes.

MARKER SETUP SCREEN

DVD-V CD

Use markers to memorize your favorite places on a disc.

1 Press the **SEARCH MODE** button repeatedly during playback.

- The display screen and Markers will appear on the TV screen.

2 Press **◀** or **▶** to select 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10 and ensure that "- : - - - -" appears in the display.

3 When reaches the desired point, press the **ENTER** button.

- The Title or Track and elapsed playing time will appear in the TV screen.

4 To return to the Marker later, press the **SEARCH MODE** button repeatedly during playback, and **◀** or **▶** to choose the desired marker, then press the **ENTER** button.

Notes

- Opening the disc tray, turning off the power, or selecting AC at step 2 and pressing the **ENTER** button will erase all Markers.
- To clear a marker, using **◀** or **▶**, position the cursor on to the marker number to be cleared and press **CLEAR** button.
- You can mark up to 10 points.

5 Press the **SEARCH MODE** button or the **RETURN** button to exit.

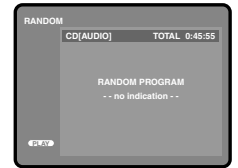
RANDOM (Audio CD)

CD

1 Press the **MODE** button in stop mode.

- The program setting menu screen will appear.

2 Press the **MODE** button again.



3 Press the **PLAY** button. Random playback will then start.

Note

- Program playback is not available during random playback.

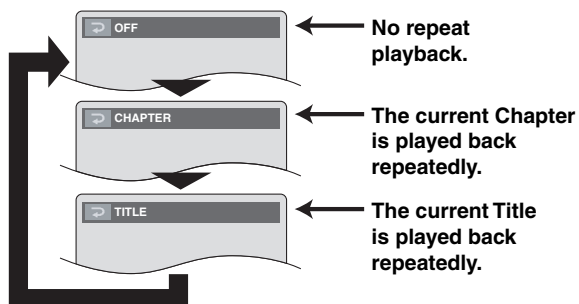
REPEAT

DVD-V CD MP3 JPEG Picture CD

1 Press the REPEAT button.

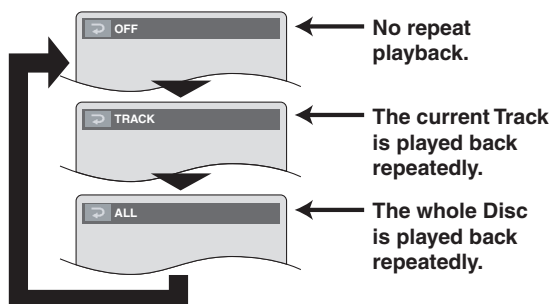
For DVDs

- A single title or chapter is played back repeatedly.
- Pressing the REPEAT button cycles the display on the screen as follows.



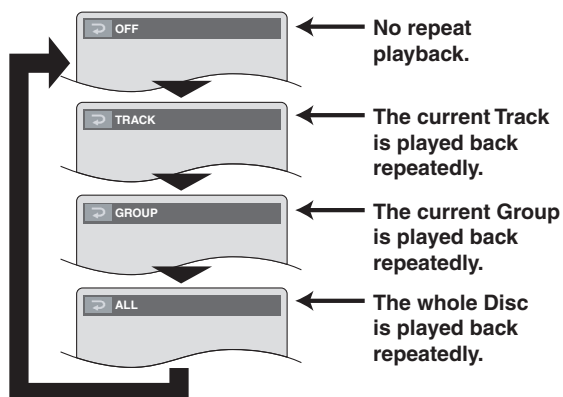
For audio CDs

- The whole disc or a single track is played back repeatedly.
- Pressing the REPEAT button cycles the display on the screen through **Off**, **Track** and **All**.



For MP3s, JPEG and Picture CDs

- A track, group or all is played back repeatedly.
- Pressing the REPEAT button cycles the display on the screen as follows.



Notes

- Repeat playback is not available with some discs.
- The REPEAT setting will be cleared when moving to another title, chapter or track.
- Repeat playback does not function during A-B repeat playback.

A-B REPEAT

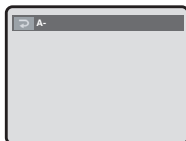
DVD-V

CD

You can define a section to be played back repeatedly.

1 Press the A-B REPEAT button during playback.

- The starting point (A) will then be selected.

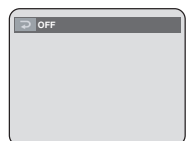


2 Press the A-B REPEAT button again at the end point (B) of the desired section.

- The selected section will be played back repeatedly.



3 To exit A-B repeat playback, press the A-B REPEAT button and set it to OFF.



Notes

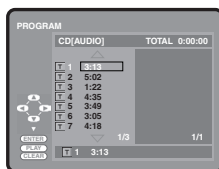
- With DVDs, the A-B repeat section can be set only within the current title.
- With audio CDs, the A-B repeat section can be set within the current track.
- A-B repeat is not available with some scenes in certain DVDs.
- To cancel the A point which was set, press the CLEAR button.
- A-B repeat playback does not function during title, chapter, track, group or all.

PROGRAM (Audio CD)

CD

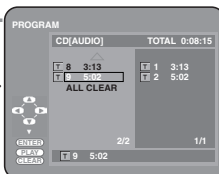
1 Press the MODE button in stop mode.

- The program screen will appear.



2 Select a track using ▲ or ▼ buttons, then press the ENTER button.

- If eight or more tracks have been set in a program, the user can switch the right part of the screen with ◀◀ or ▶▶.



3 Press the PLAY button.

- Playback will start in the programmed order.
- While the program is being played back, the STOP button works as follows:
Press the STOP button once and then the PLAY button again, and playback will restart from the point where the STOP button was pressed (Program continued).
Press the STOP button twice and then the PLAY button again, and playback will restart from the track in the usual way (Program cleared).

Notes

- Adding programs is not possible during program playback. You must stop the current playback before such operations can be carried out.
- Press the CLEAR button to cancel a program. The most recently entered program will then be deleted.
- Up to 99 programs can be entered.
- To erase all programs at once, select ALL CLEAR at the bottom of the list at Step 2.
- Playback from a desired track and random playback are not available during program playback.
- Program settings are cleared when the power is turned off or the disc loading tray is opened.

ZOOM PLAYBACK (enlargement on-screen)

DVD-V

JPEG

Picture CD

Images can be enlarged on the screen to your taste.

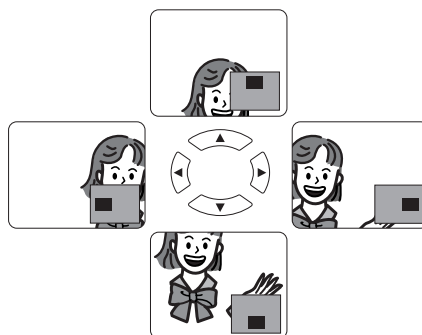
1 Press the ZOOM button during playback.

- An image will be enlarged at the center of the screen.
- Pressing the ZOOM button cycles the zooming images in three steps.



2 When the Arrow (▲/▼/◀/▶) buttons are pressed during zoom play, the part to be zoomed moves.

- The zooming frame can be moved from the center 4 steps to the right, 4 steps to the left, 4 steps to the top, and 4 steps to the bottom when 2 time zooming. The frames will move 6 steps when 4 time zooming. (In the 1.3-time zoom display, just one step can be shifted up and down as well as right and left.)
- Current position will be displayed on the right bottom of the screen. Press the ENTER button, and the display disappears.



Notes

- Zooming function does not work while disc menu is shown.
- x4 zoom is not available on some discs.
- Only x2 zoom is available on JPEG, and Picture CD.

PLAYING MP3 / JPEG IMAGE AND PICTURE CD

MP3 **JPEG** **Picture CD**

This machine can reproduce images and sounds from data recorded in MP3 and JPEG formats on CD-ROM, CD-R and CD-RW discs.

The machine can also run Picture CD by Kodak Inc. The user can enjoy picture images on their television set by Picture CD playback.

* Picture CD is a service that converts photographs taken by conventional film camera into digital data and writes the data on a CD.

For details on Picture CD, contact a shop that deals with the developing service of Kodak Inc.

Information on MP3 and JPEG files

- This DVD player can play back images and sounds from data recorded in MP3 and JPEG formats on CD-R and CD-RW discs.
- A file with an extension of ".mp3 (MP3)" is called an "MP3 file".
- A file with an extension of ".jpg (JPG)" or ".jpeg (JPEG)" is called a "JPEG file". The DVD player can run an image file conforming to the Exit specification. Exit is a file format, Exchangeable Image File format established by Japanese Electronic Industry Development Association (JEIDA).
- Files whose extension is other than ".mp3 (MP3)", ".jpg (JPG)" and ".jpeg (JPEG)" will not be listed in the MP3 or JPEG menu.
- If the file is not recorded in MP3 or JPEG format, noise may be produced even if the file extension is either ".mp3 (MP3)", ".jpg (JPG)" or ".jpeg (JPEG)".
- The name of group and track can be displayed in up to 25 characters. Unrecognizable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
- Unplayable groups or tracks may be displayed depending on the recording conditions.
- If the TITLE button is pressed when a file list is displayed, the first item will be highlighted.

1 Insert a disc and press the MENU button.

For discs on which MP3 or JPEG tracks are recorded:

- An MP3 or JPEG track menu screen appears.
- A symbol of "☐" is shown on the top of the group name.
- A symbol of "■" is shown on the top of MP3 files.
- A symbol of "⊕" is shown on the top of JPEG files.

- If the picture extends beyond the scope of screen, a down arrow "▼" appears, indicating that the user can view another part of the picture on the next page. If an up arrow "▲" appears, it indicates that the user can view another part on the previous page. The current page number and the number of total pages are shown on the right of the down arrow "▼".
- The system can recognize up to 255 groups (or folders) and up to 512 tracks. (This applies to the case where mixed MP3 and JPEG files are recorded.)
- If no MP3 or JPEG files are found in the group, the group is not displayed.
- The machine can reproduce data recorded as per ISO 9660 Level 1, Level 2 or Joliet on the disc.
- It can also run a disc on which data is recorded in a multi-session.
- For more details of recording systems, see the instruction manual for the CD-R / CD-RW drive or the writing software.

| Applicable MP3 file | | Remarks |
|---------------------|------------------------|---|
| Sampling frequency | 44.1kHz 48kHz | • It is prohibited to record MP3 sound on a digital device when connection is made digitally. |
| Type | MPEG1 audio layer 3 | • MP3 files recorded at constant bit rate of 128 kbps or higher are recommended. |

| Applicable JPEG file | | Remarks |
|----------------------|--|--|
| Size of image | Upper limit: 6300×5100 dots Lower limit: 32×32 dots | • A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen. |

Slide show mode switching of JPEG, Picture CD

This machine can switch the slide show modes.

1 Press the MODE button during JPEG or Picture CD playback.

- The slide show mode screen appears.



- The slide show mode cannot be switched when it is stopped, or from the file list screen or the Picture CD menu screen.

2 Press the ENTER button.

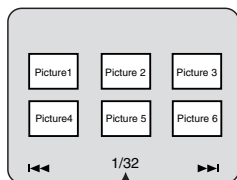
- The slide show mode will change.
 - 1: CUT IN/OUT: The entire image appears in one time.
 - 2: FADE IN/OUT: The image appears gradually and then disappears.

3 Press the MODE button to get out from mode.

For discs of Picture CD:

Press the **MENU** button.

- A Picture CD menu appears.
- If all menu items cannot be displayed in the screen scope, a prompt symbol “▶▶▶” appears at the right bottom of the screen, indicating that the user can view remaining items on the next page. If another prompt symbol “◀◀◀” appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the center bottom of the screen.



Current track number /
the number of total tracks

- If a prompt symbol “▶▶▶” is shown at the bottom right, use the ▶▶▶ button to view the next page. If another prompt symbol “◀◀◀” is shown at the bottom left, use the ◀◀◀ button to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

Using the ▲/▼ buttons, (for Picture CD, ▲/▼/◀/▶ buttons), select your desired track to be played, and press the **PLAY** or **ENTER** button.

[If an MP3 file is selected:]

Playback will start from the selected track and go to the next one in turn.

[If a JPEG or Picture CD file is selected:]

An image will be played back from the selected track and go to the next one in turn.

A track is displayed for five seconds and then the next track is displayed.

Every press on the ▶ button will turn the image clockwise by 90 degrees when an image is displayed. A press on the ◀ will turn the image counterclockwise by 90 degrees.

Zoom replay of JPEG, Picture CD

1 Press **ZOOM** button during replay.

- The screen is displayed at two magnifications with the pause state established.

2 Press the **Arrow** buttons (▲/▼/◀/▶) to move the indication position.

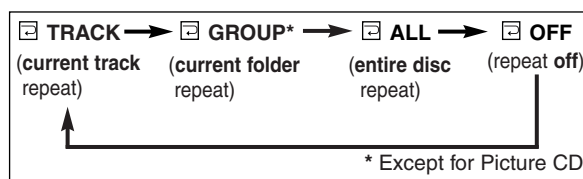
3 For zoom mode resetting, press **ZOOM** button to turn it **OFF**.

- Reset Pause to regenerate the next screen.

Notes

- JPEG, Picture CD can not be zoomed at 4 magnifications.
- If any screen zoomed at 2 magnifications in JPEG is fully displayed in the screen, the indication position can not be moved with the **Arrow** buttons (▲/▼/◀/▶).
- The number of movable steps is different depending on the screen size. (Maximum: 4 steps up-/downward and left-/rightward)
- The zoomed screen can not be rotated for display. First rotate the screen for display, and then press **ZOOM** button.

Repeated replay of JPEG, Picture CD



[If Group is selected:]

Using the ▲/▼ buttons, select your desired group, and then press ▶, the **PLAY** or **ENTER** button to select a track.

If you press the **PLAY** or **ENTER** button, playback of the picture will start.

Notes on MP3 and JPEG

- The ninth and deeper hierarchies cannot be played.
- The name of group and track can be displayed in up to 25 characters. Alphabets, numerals underline, asterisk or space may not be displayed. Unrecognizable characters will be replaced with asterisks.
- Un-reproducible groups or tracks may be displayed depending on the recording conditions.
- If the **TITLE** button is pressed when a file list is displayed, the first item will be highlighted.

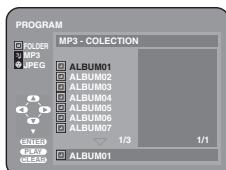
4 To stop the play, press the **STOP** button.

PLAYING MP3 DISC/JPEG DISC/PICTURE CD IN A PROGRAMMED WAY

MP3 JPEG Picture CD

1 Press the MODE button in STOP mode.

- The program screen shows up.

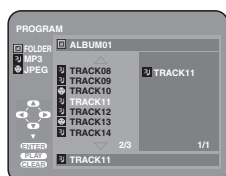


2 Using the ▲/▼ buttons, select a group. Then press the ENTER button.

- A Track selection screen appears.

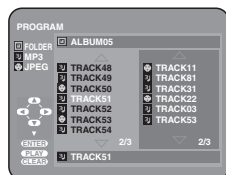
3 Using the ▲/▼ buttons, select a track. Then press the ENTER button to save it in a program.

- The programmed track is displayed in the right-hand screen.
- If the entire program cannot be displayed at once on the screen, “▼” appears to go to the next page.
- Pressing the ◀ button will show a list of folders that belong to the one-level upper hierarchy than the currently selected folder.



4 When the disc has been programmed, press the PLAY button.

- Programmed play starts.



Notes

- Press the CLEAR button, and the last-programmed entry will be deleted.
- Press the RETURN button to exit the program screen. The programmed tracks will be saved, unless the power is turned off or the disc tray is opened.
- To stop programmed play, press the STOP button. Another press on the STOP button will reset the subsequent information.

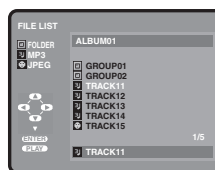
- Up to 99 tracks can be set in a program.
- If a disc is inserted that contains mixed MP3 and JPEG files, program setting allows 99 tracks for combination of MP3 and JPEG files.
- If eight or more tracks have been set in a program, the user can switch the right part of the screen with ◀◀ or ▶▶.

PLAYING AN MP3 DISC/JPEG DISC FROM A DESIRED TRACK

MP3 JPEG

1 Press the MENU button.

- The FILE LIST shows up.



2 Using the ▲/▼ buttons, select a track to be played. Then press the PLAY or ENTER button to start playing.

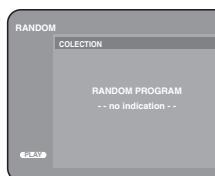
Notes

- Playback cannot be started from a desired time count.
- The MENU button is not effective for Picture CD playback.

PLAYING AN MP3 DISC/JPEG DISC/PICTURE CD AT RANDOM

MP3 JPEG Picture CD

1 In STOP mode, press the MODE button repeatedly until the random screen appears.



2 Press the PLAY button.

- Random play starts.
- For a disc containing mixed MP3 and JPEG files, random play of those files will be performed.

SETTINGS

CHANGING THE AUDIO LANGUAGE OR SOUND MODE

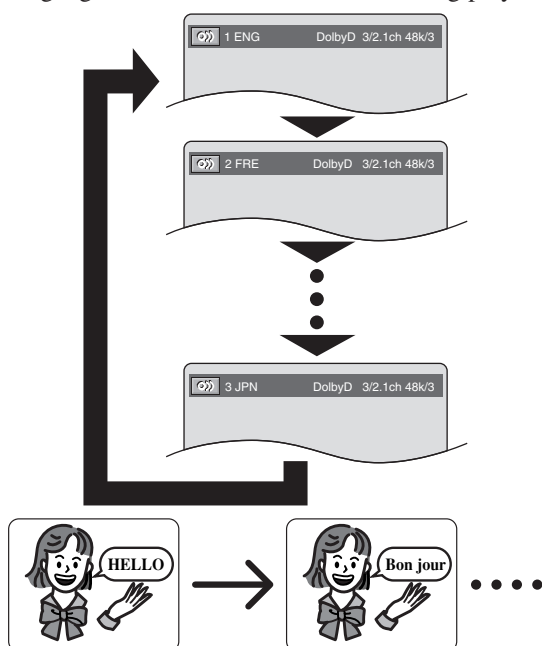
DVD-V CD

This DVD player has a function which allows you to select the desired audio language and sound mode.

For DVDs

Press the AUDIO button during playback, and then press the AUDIO button to select the desired audio language.

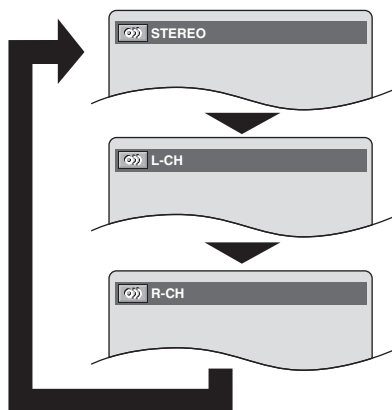
- The audio language can be changed if multiple languages are recorded on the DVD being played.



For audio CDs

Press the AUDIO button during playback.

- Pressing the AUDIO button cycles the sound mode through STEREO, L-CH and R-CH.



Notes

- Pressing the AUDIO button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu). Operation varies between discs, so refer to the manual accompanying the disc.
- Current audio language and sound mode will be displayed when you press the AUDIO button at first.
- If a desired language is not shown after pressing the AUDIO button several times, the disc does not have an audio source in that language.
- If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 30.)
- The audio language resets to the one which has been selected in the setup mode, every time the power is turned on or discs are replaced. If that language is not available on a disc, a language defined by the disc is selected.
- The screen display will disappear after about 5 seconds.
- DTS CD does not allow the user to switch the sound mode.
- The Audio language cannot be changed during Speech Control (Refer to page 29).

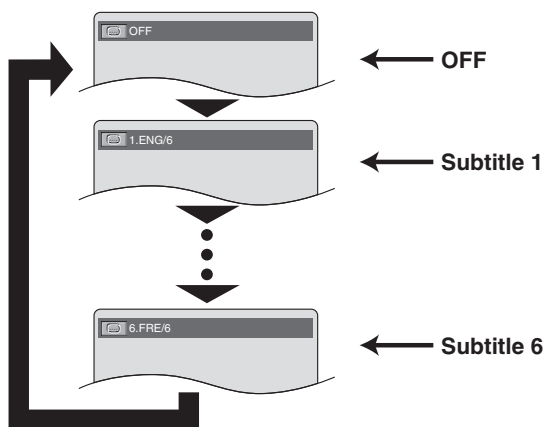
CHANGING THE SUBTITLE LANGUAGE

DVD-V

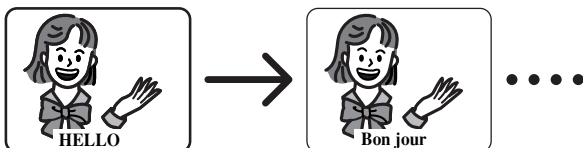
This DVD player has a function which allows you to select the desired language for subtitles.

1 Press the SUBTITLE button during playback, and then press the SUBTITLE button to select the desired subtitle language.

- The subtitle language can be changed if the subtitles are recorded in multiple languages on the DVD being played.
- The subtitle language cannot be changed if the subtitles are recorded in a single language on the DVD being played.



- Pressing the SUBTITLE button cycles the subtitle language from SUBTITLE 1, SUBTITLE 2 and all the languages recorded.
- Current subtitle mode will be displayed when you press the SUBTITLE button at first.
- Press the SUBTITLE button, and then press the cursor (◀/▶) button to set it to on or off.



Notes

- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- If the desired language is not shown after pressing the SUBTITLE button several times, the disc does not have subtitles in that language.
- If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 30.)

- The subtitle language resets to the one which has been selected in the setup mode, every time the power is turned on or discs are replaced. If that language is not available on a disc, a language defined by the disc is selected.
- It may take time to display the subtitles in the selected language.
- The screen display will disappear after about 5 seconds.
- When "NOT AVAILABLE" appears on-screen, it means no subtitle is recorded on the scene.

CHANGING THE CAMERA ANGLE (Multi-Angle Pictures)

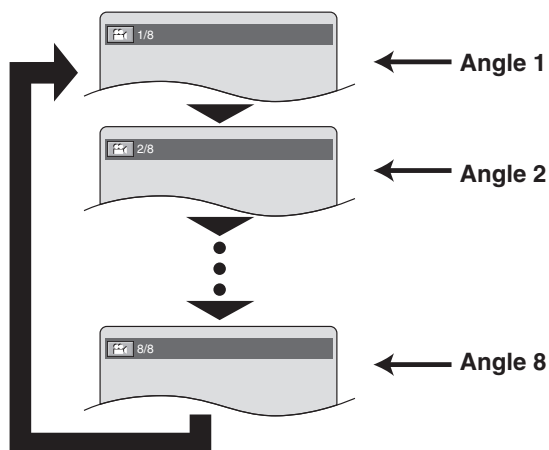
DVD-V

This DVD player has a function which allows you to select the desired camera angle.

1 Press the ANGLE button during playback.

- If the disc contains sequences recorded from different camera angles, the angle icon (📷) will appear at the top-right of the screen. You can change the camera angle when the icon appears on the screen.
- The camera angle cannot be changed if the disc does not contain sequences recorded from different camera angles.

2 Press the ANGLE button while the angle number is shown on the screen.



Notes

- The screen display will disappear after about 5 seconds.
- Current camera angle will be displayed when you press the ANGLE button at first.
- If the "ANGLE ICON" setting is "OFF" in the Display menu, the (📷) icon will not appear.

CHANGING THE ON-SCREEN DISPLAY

DVD-V

CD

MP3

JPEG

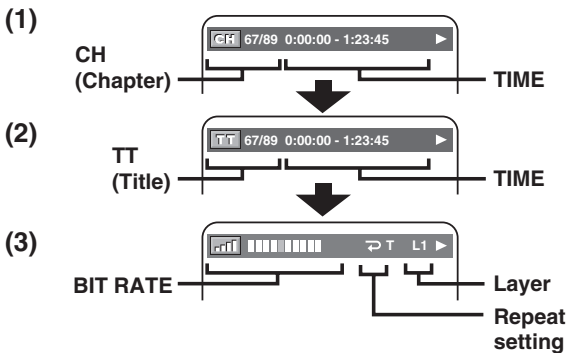
Picture CD

You can check the information about the disc by pressing the DISPLAY button on the remote control.

1 Press the DISPLAY button during playback.

- The information screen will appear.
- Next information screen will appear by pressing the DISPLAY button repeatedly.

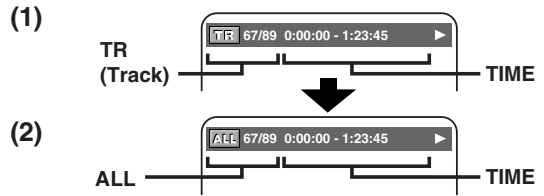
For DVDs



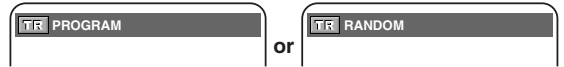
| | | |
|-----|----------|--|
| (1) | CH | Current chapter number/the number of total chapters |
| | TIME | Elapsed time of the current chapter and remaining time of the current chapter |
| (2) | TT | Current title number/the number of total titles |
| (3) | BIT RATE | Shows the quantity of information which is recorded (DVD only). |
| | Repeat | The repeat status of the currently played item is displayed (Not displayed if repeat has not been selected) T: Title C: Chapter |
| | Layer | Layer number L0: Layer 0 is playing back L1: Layer 1 is playing back |

Either press the RETURN button or press the DISPLAY button until the display disappears.

For audio CDs



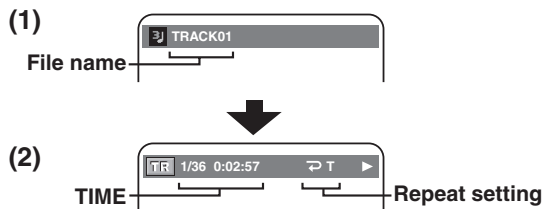
(3) Program/Random Playback only



| | | |
|-----|--------|--|
| (1) | TR | Current track number/the number of total tracks |
| | TIME | Elapsed time of the current track and remaining time of the current track |
| | Repeat | The repeat status of the currently played item is displayed (Not displayed if repeat has not been selected) T: Track A: All |
| (2) | ALL | Current track number/the number of total tracks |
| | TIME | Elapsed time of the current disc and remaining time of the current disc |
| | Repeat | The repeat status of the currently played item is displayed (Not displayed if repeat has not been selected) T: Track A: All |

Either press the RETURN button or press the DISPLAY button until the display disappears.

For MP3s



(3) Program/Random Playback only



| | | |
|-----|-----------|---|
| (1) | File name | Name of currently played track |
| (2) | TR | Current track number/the number of total tracks |
| | TIME | Elapsed time of the current track |
| | Repeat | The repeat status of the currently played item is displayed (Not displayed if repeat has not been selected) T: Track; G: Group; A: All |

Either press the RETURN button or press the DISPLAY button until the display disappears.

For JPEGs or Picture CDs

- (1)
- (2)
- (3) Program/Random Playback only
- or

| | | |
|-----|-----------|---|
| (1) | File name | Name of currently played track |
| (2) | TR | Current track number/the number of total tracks |
| | Repeat | The repeat status of the currently played item is displayed (Not displayed if repeat has not been selected) |
| | | T: Track; G: Group (only for JPEG); A: All |

Either press the RETURN button or press the DISPLAY button until the display disappears.

SETTING IMAGE QUALITY ADJUSTMENT

DVD-V

1 Press the MODE button during playback.

- The setup screen will appear.

2 Select from items

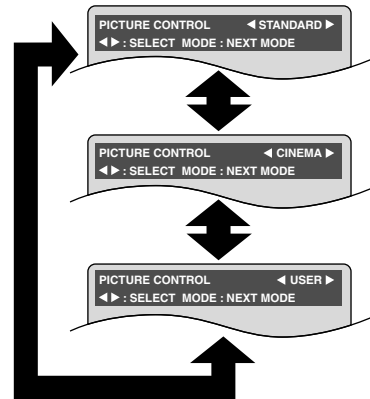
- Every press on the MODE button switches setting screens in the following order:

"Disc playback" screen → "Picture control" screen
 "Speech control" screen → "Image quality setting" screen
 "Virtual surround" screen ← "Black level setting" screen

- * The "Image quality setting" screen appears only when "User" has been selected in "Image quality adjustment" on the "Picture control" screen.

Picture control

Press the ◀▶ buttons to switch the setting items.



STANDARD: A standard image quality mode

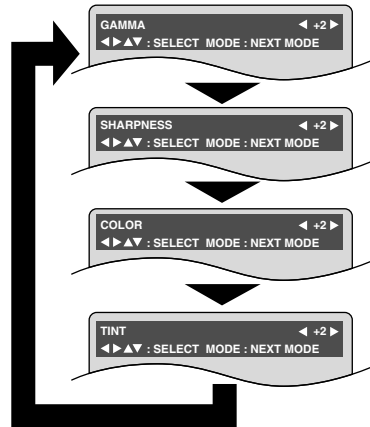
CINEMA: The image quality mode for movie pictures providing easy view of dark scenes.

USER: Image quality mode that can be adjusted freely by user setting.

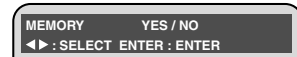
Image quality setting

- The "Image quality setting" screen appears only when "User" has been selected in "Image quality adjustment" on "Picture control" screen.

- Press the ◀▶ buttons to change the value.
- Press the ▲▼ buttons to switch items.



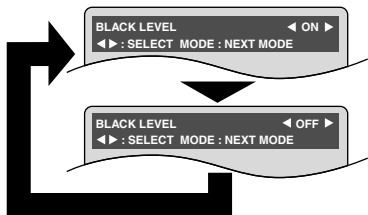
- Press the RETURN button to save the change.



Press the ◀▶ buttons, and select "Yes" if you want to save the change, and "No" if not, and then press the ENTER button.

Black level setting

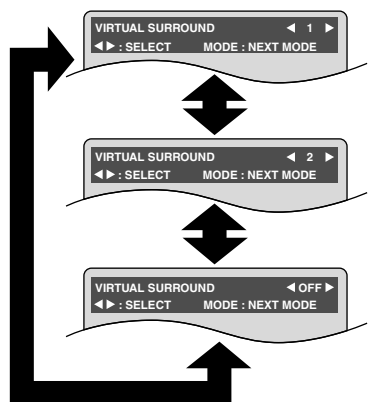
Press the ◀▶ buttons to switch the setting items.



Virtual surround

- You can enjoy stereophonic visual space on your existing stereo system.

Press the ◀▶ buttons to set it to 1, 2 or OFF.



1: Natural effect

2: Emphasized effect

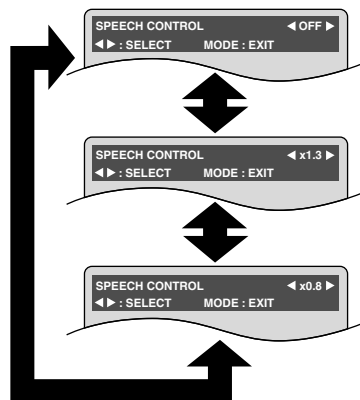
Notes

- The setting will be saved even if the player is turned off.
- The setting will not be effective unless the sound mode is set to STEREO. (for CD play only)
- Turn down the level or turn it "OFF" if the sound is distorted.
- This function cannot be used during Speech control.

Speech control

* Available only on discs recorded in the Dolby Digital format, Speech control plays back in slightly faster / slower speed while keeping the sound quality as in the normal playback. Press the ◀▶ buttons to switch among OFF,(x0.8) and (x1.3).

x0.8:Plays back approximately at 0.8 times of normal playback.
x1.3:Plays back approximately at 1.3 times of normal playback.
To return to normal playback, press the PLAY button.



Notes

- Audio (language) setting cannot be changed while using this mode.
- Picture control, Virtual Surround and Black Level settings cannot be changed while using this mode.
- Virtual Surround does not function while using this mode.
- This feature may not work at some point in a disc.
- When using digital audio connection (COAXIAL), the PCM sound will be output.

Press the **MODE** or **RETURN** button.

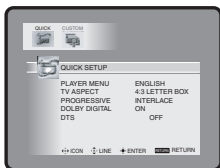
- This completes the setting, displaying the normal screen.

CHANGING THE SETUP ITEMS

LANGUAGE SETTINGS

1 Press the **SETUP** button in **STOP** mode.

- The setup screen will appear.



2 Press the **◀▶** buttons to select **CUSTOM**, and then press the **ENTER** button.



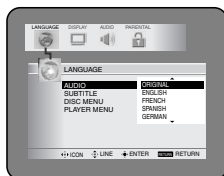
3 Press the **◀▶** buttons to select **Language**, and then press the **ENTER** button.



4 Press the **▲▼** buttons to select an item, and then press the **ENTER** button.

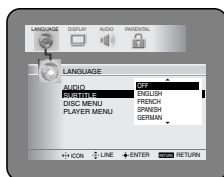
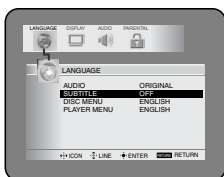
AUDIO:

(Voice is played back in selected language.)



SUBTITLE:

(Subtitles are shown in selected language.)



DISC MENU:

(The disc menu appears in selected language.)

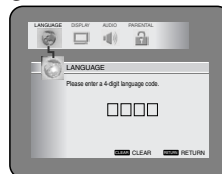


PLAYER MENU (It can be also set by **QUICK SETUP**):
(The on-screen display appears in selected language.)



5 Press the **▲▼** buttons to select a desired item, and then press the **ENTER** button.

- If “OTHER” is selected on the **AUDIO**, **SUBTITLE** or **DISC MENU** setting screen, the Language Code setting screen will appear. Press the Numeric buttons to enter the desired language code while referring to the list on page 30.



6 Press the **SETUP** button.

- The setup mode will be cancelled and the ordinary screen will appear.

Note

- Language Setting for Audio and Subtitle is not available with some discs. Use the **AUDIO** and **SUBTITLE** buttons. Details are on pages 24 and 25.

LANGUAGE CODE LIST

| Language | Country code | Language | Country code | Language | Country code |
|-----------------|--------------|------------------|--------------|----------------|--------------|
| Afar | 4 7 4 7 | Interlingua | 5 5 4 7 | Quechua | 6 3 6 7 |
| Abkhazian | 4 7 4 8 | Interlingue | 5 5 5 1 | Rhaeto-Romance | 6 4 5 9 |
| Afrikaans | 4 7 5 2 | Inupiak | 5 5 5 7 | Kirundi | 6 4 6 0 |
| Amharic | 4 7 5 9 | Indonesian | 5 5 6 0 | Romanian [RUM] | 6 4 6 1 |
| Arabic | 4 7 6 4 | Icelandic [ICE] | 5 5 6 5 | Russian [RUS] | 6 4 6 7 |
| Assamese | 4 7 6 5 | Italian [ITA] | 5 5 6 6 | Kinyarwanda | 6 4 6 9 |
| Aymara | 4 7 7 1 | Hebrew | 5 5 6 9 | Sanskrit | 6 5 4 7 |
| Azerbaijani | 4 7 7 2 | Japanese | 5 6 4 7 | Sindhi | 6 5 5 0 |
| Bashkir | 4 8 4 7 | Yiddish | 5 6 5 5 | Sangho | 6 5 5 3 |
| Byelorussian | 4 8 5 1 | Japanese [JPN] | 5 6 6 9 | Serbo-Croatian | 6 5 5 4 |
| Bulgarian | 4 8 5 3 | Georgian | 5 7 4 7 | Singhalese | 6 5 5 5 |
| Bihari | 4 8 5 4 | Kazakh | 5 7 5 7 | Slovak | 6 5 5 7 |
| Bislama | 4 8 5 5 | Greenlandic | 5 7 5 8 | Slovenian | 6 5 5 8 |
| Bengali;Bangla | 4 8 6 0 | Cambodian | 5 7 5 9 | Samoaan | 6 5 5 9 |
| Tibetan | 4 8 6 1 | Kannada | 5 7 6 0 | Shona | 6 5 6 0 |
| Breton | 4 8 6 4 | Korean [KOR] | 5 7 6 1 | Somali | 6 5 6 1 |
| Catalan | 4 9 4 7 | Kashmiri | 5 7 6 5 | Albanian | 6 5 6 3 |
| Corsican | 4 9 6 1 | Kurdish | 5 7 6 7 | Serbian | 6 5 6 4 |
| Czech | 4 9 6 5 | Kirghiz | 5 7 7 1 | Siswat | 6 5 6 5 |
| Welsh | 4 9 7 1 | Latin | 5 8 4 7 | Sesotho | 6 5 6 6 |
| Danish [DAN] | 5 0 4 7 | Lingala | 5 8 6 0 | Sundanese | 6 5 6 7 |
| German [GER] | 5 0 5 1 | Laothian | 5 8 6 1 | Swedish [SWE] | 6 5 6 8 |
| Bhutani | 5 0 7 2 | Lithuanian | 5 8 6 6 | Swahili | 6 5 6 9 |
| Greek [GRE] | 5 1 5 8 | Latvian;Lettish | 5 8 6 8 | Tamil | 6 6 4 7 |
| English [ENG] | 5 1 6 0 | Malagasy | 5 9 5 3 | Telugu | 6 6 5 1 |
| Esperanto | 5 1 6 1 | Maori | 5 9 5 5 | Tajik | 6 6 5 3 |
| Spanish [SPA] | 5 1 6 5 | Macedonian | 5 9 5 7 | Thai | 6 6 5 4 |
| Estonian | 5 1 6 6 | Malayalam | 5 9 5 8 | Tigrinya | 6 6 5 5 |
| Basque | 5 1 6 7 | Mongolian | 5 9 6 0 | Turkmen | 6 6 5 7 |
| Persian | 5 2 4 7 | Moldavian | 5 9 6 1 | Tagalog | 6 6 5 8 |
| Finnish [FIN] | 5 2 5 5 | Marathi | 5 9 6 4 | Setswana | 6 6 6 0 |
| Fiji | 5 2 5 6 | Malay | 5 9 6 5 | Tonga | 6 6 6 1 |
| Faroese | 5 2 6 1 | Maltese | 5 9 6 6 | Turkish [TUR] | 6 6 6 4 |
| French [FRE] | 5 2 6 4 | Burmese | 5 9 7 1 | Tsonga | 6 6 6 5 |
| Frisian | 5 2 7 1 | Nauru | 6 0 4 7 | Tatar | 6 6 6 6 |
| Irish [IRI] | 5 3 4 7 | Nepali | 6 0 5 1 | Twi | 6 6 6 9 |
| Scots Gaelic | 5 3 5 0 | Dutch [DUT] | 6 0 5 8 | Ukrainian | 6 7 5 7 |
| Galician | 5 3 5 8 | Norwegian [NOR] | 6 0 6 1 | Urdu | 6 7 6 4 |
| Guarani | 5 3 6 0 | Occitan | 6 1 4 9 | Uzbek | 6 7 7 2 |
| Gujarati | 5 3 6 7 | (Afan)Oromo | 6 1 5 9 | Vietnamese | 6 8 5 5 |
| Hausa | 5 4 4 7 | Oriya | 6 1 6 4 | Volapuk | 6 8 6 1 |
| Hindi | 5 4 5 5 | Panjabi | 6 2 4 7 | Wolof | 6 9 6 1 |
| Croatian | 5 4 6 4 | Polish | 6 2 5 8 | Xhosa | 7 0 5 4 |
| Hungarian [HUN] | 5 4 6 7 | Pashto;Pushto | 6 2 6 5 | Yoruba | 7 1 6 1 |
| Armenian | 5 4 7 1 | Portuguese [POR] | 6 2 6 6 | Chinese [CHI] | 7 2 5 4 |
| | | | | Zulu | 7 2 6 7 |

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on pages 24 and 25. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

DISPLAY SETTINGS

DVD-V

1 Press the **SETUP** button in **STOP** mode.

- The setup screen will appear.



2 Press the **◀▶** buttons to select **CUSTOM**, and then press the **ENTER** button.



3 Press the **◀▶** buttons to select **DISPLAY** and then press the **ENTER** button.



4 Press the **▲▼** buttons to select an item, and then press the **ENTER** button.

TV ASPECT (Default : 4:3 LETTER BOX)

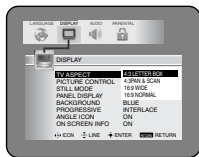
(It can be also set by **QUICK SETUP**)

4:3 LETTER BOX: Wide screen with black bars on top and bottom

4:3 PAN & SCAN: Full height picture, trimmed both sides

16:9 WIDE : If wide screen TV is connected

16:9 NORMAL : 4:3 image will be displayed on the 16:9 screen.



PICTURE CONTROL (Default: **STANDARD**)

Sets the image to display, to an easy-to-see status.



STILL MODE (Default: **AUTO**)

- Press **▲** or **▼** for an item selection (**AUTO**, **FIELD**, or **FRAME**), then press the **ENTER** button.
- This adjusts the resolution of pictures while in the still (**PAUSE**) mode.
- **AUTO** is normally selected.

- Select **FIELD** if pictures in still mode are blurred.
- Select **FRAME** to view pictures in still mode at high resolution.



PANEL DISPLAY (Default : **BRIGHT**)

Adjust the brightness of the unit's display.

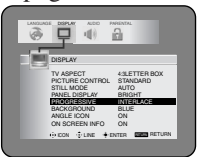
Auto: Stays dim only during playback.



PROGRESSIVE (Default : **INTERLACE**)

(It can also be set by **QUICK SETUP**)

- Press **▲** or **▼** to set **PROGRESSIVESCAN** to **PROGRESSIVE** or **INTERLACE**, then press the **ENTER** button.
- The setting will be effective when you exit the setup screen by pressing **SETUP** button.
- When **PROGRESSIVESCAN** is **PROGRESSIVE**, "P.SCAN" appears on the DVD player's display.
- Refer to page 11 for more details.



BACKGROUND (Default: **BLUE**)

Select blue or gray.



ANGLE ICON (Default : **ON**)

Display the Angle icon on the screen.



ON SCREEN INFO (Default: **ON**)

Displays the play-back mark, etc. on the screen.



- 5** (If you selected TV ASPECT, PICTURE CONTROL, STILL MODE, PANEL DISPLAY, PROGRESSIVE or BACKGROUND)
Press the ▲/▼ buttons to select a desired item, and then press the ENTER button.
(If you selected ANGLE ICON or ON SCREEN INFO)
Press the ENTER button.

6 Press the SETUP button.

- The setup mode will be cancelled and the ordinary screen will appear.

Note

- Selecting a different mode is only effective if it is available on the Disc.

AUDIO SETTINGS

DVD-V

1 Press the SETUP button in STOP mode.

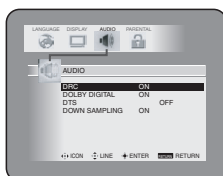
- The setup screen will appear.



2 Press the ◀▶ buttons to select CUSTOM, and then press the ENTER button.



3 Press the ◀▶ buttons to select AUDIO and then press the ENTER button.



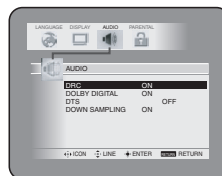
4 Press the ▲/▼ buttons to select an item, and then press the ENTER button.

DRC (Default : ON)

ON : DRC (Dynamic Range Control)

- This function is for controlling the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night and but also to raise the volume of low sound.

- This function is effective only for the sound recorded by Dolby Digital recording.

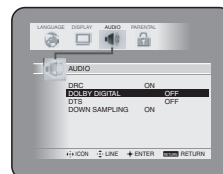
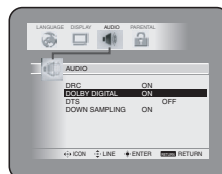


DOLBY DIGITAL (default : ON)

(It can be also set by QUICK SETUP)

ON : Output by Dolby Digital

Set to On when the unit is connected to Dolby Digital Decoder.

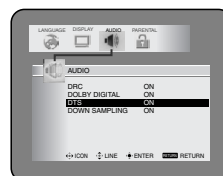
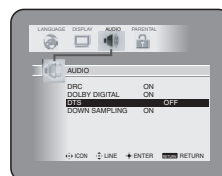


DTS (Default: OFF)

(It can be also set by QUICK SETUP)

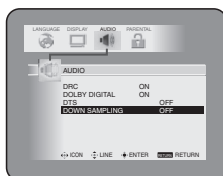
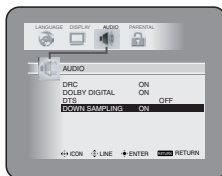
ON : Selected when the DTS decoder is connected digitally to the amplifier installed.

OFF : Selected when the DTS decoder is connected to the amplifier incompatible to the DTS. In this case, the DTS track is not output.



DOWN SAMPLING (Default : ON)

Set the output for the DVD recorded in PCM 96kHz (96kHz or 48kHz)



When playing a disc with copyright protection

- When playing a disc with copyright protection, the sound will be down sampled at 48kHz even if you set it to OFF.
- DOWN SAMPLING function is available only on digital output of a disc recorded in 96kHz, and when the unit is connected to another source using the digital out jack.
- DOWN SAMPLING function is available only on the discs recorded in the Dolby Digital format.

5 Press the SETUP button.

- The setup mode will be cancelled and the ordinary screen will appear.

PARENTAL LOCK

DVD-V

1 Press the **SETUP** button in **STOP** mode.

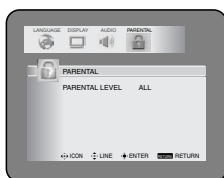
- The setup screen will appear.



2 Press the **◀▶** buttons to select **CUSTOM**, and then press the **ENTER** button.

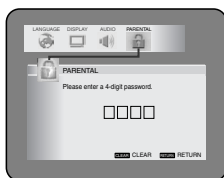


3 Press the **◀▶** buttons to select **PARENTAL**, and then press the **ENTER** button.

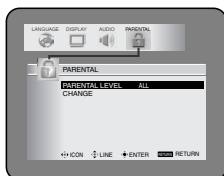


4 Press the Numeric buttons to enter the 4-digit password, and then press the **ENTER** button.

- When doing this for the first time, enter any 4 digits (except for 4737). This number will be used as the password from the second time onward.
- By entering the password, you can then change the control level and password settings.



5 Press the **▲/▼** buttons to select an item, and then press the **ENTER** button.



When “PARENTAL LEVEL” is selected

- Press the **▲/▼** buttons to select an item from “ALL” or 8 to 1 and then press the **ENTER** button.

ALL

All parental lock is cancelled.

Level 8

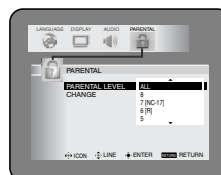
DVD software of any grade (adult/general/children) can be played back.

Levels 7 to 2

Only DVD software intended for general use and children can be played back.

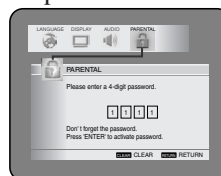
Level 1

Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.



When “CHANGE” is selected

- Press the Numeric buttons to enter the 4 digits password. Then press the **ENTER** button.



6 Press the **SETUP** button.

- The setup mode will be cancelled and the ordinary screen will appear.

Notes

- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.

IF YOU FORGET THE PASSWORD

1) Press the 4, 7, 3, 7 at step 4.

- Password will be cleared and parental level will be set to **ALL**.

2) Proceed the above steps 4-6 again.

TROUBLESHOOTING GUIDE

If the DVD player does not perform properly when operated as instructed in this Owner's Manual, check the player, consulting the following checklist.

| Symptom | Cause | Remedy |
|--|---|--|
| No power | <ul style="list-style-type: none"> Loose power plug. | <ul style="list-style-type: none"> Insert the power plug firmly into the wall outlet. |
| The player does not respond to the remote control. | <ul style="list-style-type: none"> The remote control is not aimed at the sensor on the player. Obstacles present between the remote control and the sensor. The remote control is too far away from the player. Dead batteries. | <ul style="list-style-type: none"> Aim the remote control directly at the sensor on the player. Remove the obstacles from the signal path. Use the remote control within 23 feet of the player. Replace the batteries. |
| No picture | <ul style="list-style-type: none"> Loose video connection. Wrong disc. Progressive scan is on. ("P.SCAN" lights up in the display.) | <ul style="list-style-type: none"> Connect the video cables firmly. Insert a correct video disc that plays on this player. If your TV is not compatible with progressive scanning, set "PROGRESSIVE" to "INTERLACE". |
| Disc cannot be played | <ul style="list-style-type: none"> No disc. Dirty disc. Disc is placed upside down. Parental lock is active. | <ul style="list-style-type: none"> Insert a disc. Clean the disc. Place the disc correctly, with the label side up. Cancel the parental lock or change the control level. |
| No sound | <ul style="list-style-type: none"> Loose audio connection. The power of the connected audio component is off. Wrong audio output settings. Wrong input settings on the connected audio component. DTS sound is being output. | <ul style="list-style-type: none"> Connect the audio cables firmly. Turn the power of the audio component on. Correct the audio output settings. Correct the input settings on the audio component. The analog output terminal does not supply DTS sound. |
| Distorted picture | <ul style="list-style-type: none"> Copy protection is active. Immediately after playing, press fast forward or in reverse. The 1st layer is switching to the 2nd layer, when playing a two layered disc. | <ul style="list-style-type: none"> Connect the player directly to the TV. There are some cases where pictures may be slightly distorted, which are not a sign of a malfunction. Although Pictures may stop for a moment, this is not a malfunction and is quite common. |
| Audio or subtitle language does not match the setup. | <ul style="list-style-type: none"> The selected language is not available for audio or subtitles on the DVD. | <ul style="list-style-type: none"> No malfunction. |
| The camera angle cannot be changed. | <ul style="list-style-type: none"> The DVD does not contain audio source or subtitles in the selected language. | <ul style="list-style-type: none"> No malfunction. |
| Audio or subtitle language cannot be changed. | <ul style="list-style-type: none"> The DVD does not contain sequences recorded from different camera angles. | <ul style="list-style-type: none"> No malfunction. |
| "Prohibited icon" appears on the screen, prohibiting an operation. | <ul style="list-style-type: none"> That operation is prohibited by the player or disc. | <ul style="list-style-type: none"> No malfunction. |

Notes

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Owner's Manual for details on correct operations.
- Playback from a desired track and random playback are not available during program playback.
- DOWN SAMPLING function is available only on the discs recorded in the Dolby Digital format.
- Some functions are prohibited on some discs.

HANDLING PRECAUTIONS

Servicing

Should your DVD player become inoperable, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn the power off, unplug the power cord, and please call our help line at 1-800-332-2119 to locate an Authorized Service Center.

Cabinet Cleaning

- Wipe the front panel and other exterior surfaces of the DVD player with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray any type of liquid near the DVD player. Certain chemicals may cause damage and discoloration to the exposed surfaces.

If the Laser Optical Pickup Unit is Dirty

- If the player still does not perform properly when it is operated and you have referred to the relevant sections and to the "Troubleshooting Guide" for help, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

Adhesive labels

- Discs that are irregularly shaped, contain a scratch protection film or have an adhesive paper label or sticker should not be inserted into this player. Over time, the label or sticker may cause the disc to be stuck in the player, possibly causing damage to your player. If you wish to play "homemade" discs in this player, it is recommended you use a permanent felt tip marker to identify the disc.

NEVER ATTEMPT TO PLAYBACK A DISC THAT IS CRACKED OR BROKEN !

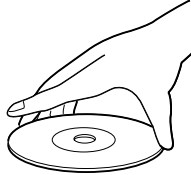
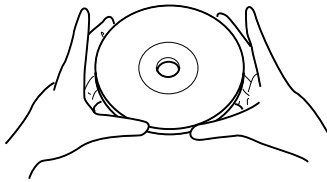
HANDLING PRECAUTIONS (continued)

Disc Handling

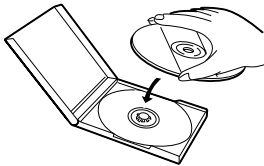
- Use discs which have the following logos on them.



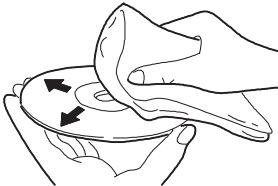
- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.



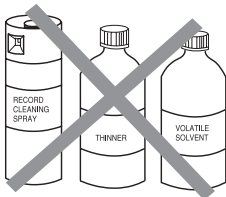
- Always store the disc in its protective case when it is not used.



- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the disc.
- Wipe the disc in a straight line from center to edge.
- Never wipe in a circular motion.



- Do not use detergent or abrasive cleansing agents.



SPECIFICATIONS

| | |
|-----------------------------------|--|
| Product type : | DVD Player |
| Discs : | DVD video Audio CD |
| Output signal format : | NTSC color |
| Frequency response : | 20 Hz to 22 kHz (sample rate: 48 kHz) 20 Hz to 44 kHz (sample rate: 96 kHz) |
| Signal-to-noise ratio (S/N ratio) | |
| CD: | 120 dB (JEITA) |
| Dynamic range | |
| DVD (linear sound): | 102 dB |
| CD: | 99 dB (JEITA) |
| Total harmonic distortion | |
| DVD: | 0.0025% |
| CD: | 0.003% |
| Wow and flutter : | Below the measurement limitation (+/-0.001% W PEAK) (JEITA) |
| Connections | |
| S-Video output : | Mini DIN 4-pin jack (75 ohm) |
| Video output : | One RCA connector, 1 Vpp (75 ohm) |
| Coaxial digital audio output : | One pin jack, 500mVpp (75 ohm) |
| Analog audio output : | Two RCA connectors (one left channel, one right channel) 2 Vrms (100 kilo-ohm) |
| Component video output : | One pin jack (Y), 1 Vpp (75 ohm) Two pin jacks (C _b)/(C _r), 700mVpp (75 ohm) |
| Power source : | 120 V AC +/- 10%, 60 Hz +/- 0.5% |
| Power consumption : | 10 W (standby: 0.8W) |
| Operating temperature : | 41°F to 104°F |
| Dimensions : | W 17-1/8" 1.3 (435mm) H 2" (51mm) D 8-5/16" (211mm) |
| Weight : | 2.9 lbs (1.3kg) |

• Designs and specifications are subject to change without notice.

MEMO

MEMO

**mitsubishi dvd player
limited warranty**

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC. ("MDEA") warrants to the original purchaser of this DVD player if purchased from an authorized MITSUBISHI Audio/Video Dealer that, should it prove defective by reason of improper workmanship and/or material:

- a. **Parts.** For one year from the date of original purchase at retail, we will repair or replace, at our option, any defective part without charge for the part. All parts used for replacement are warranted for the remainder of the original warranty period.
- b. **Labor.** For six months from the date of original purchase at retail, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge.
- c. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

1. TO OBTAIN WARRANTY SERVICE DURING THE FIRST YEAR:

a. Contact your nearest authorized MITSUBISHI service center, whose name and address can be obtained from your MITSUBISHI dealer or by writing or calling MDEA at the address and telephone number provided below.

b. Warranty service will be provided at an authorized service shop, provided that your DVD player is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your DVD player to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized MITSUBISHI Dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. **THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE.** However, please return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2. **THIS WARRANTY DOES NOT COVER** damage caused by: modification, alteration, repair or service of this product by anyone other than an authorized MITSUBISHI service center; physical abuse to, or misuse of, the product; operation in a manner contrary to the instructions which accompany the product; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or serviced outside the U.S.A., initial technical adjustments (setup) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

3. **ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.**

4. **UNDER NO CIRCUMSTANCES SHALL MDEA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.**

5. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental, special, or consequential damages, so the above limitations or exclusions may not apply to you.

6. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

7. **BEFORE REQUESTING SERVICE,** please review the instruction booklet to ensure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MITSUBISHI Dealer for name(s) of authorized MITSUBISHI Service Center(s). If you are unable to obtain this information, please call 1-800-332-2119, or write us at the address below.

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC.
9351 Jeronimo Road
Irvine, CA 92618-1904



RETAIN THIS PORTION FOR YOUR RECORDS

SERIAL NO. _____

CUSTOMER NAME _____
STREET ADDRESS _____
CITY _____ STATE _____ ZIP _____
PHONE () _____ PURCHASE DATE _____ / _____ / _____
MO DAY YR

PLACE OF PURCHASE _____